StorNext® File System Version 2.2

Syntax conventions:

- *italics* = replace with a variable
- [ ] = optional component

cvadmin

Command	Options	Description
cvadmin		Views and modifies attributes of StorNext FS stripe groups.
	-F *FileSystemName*	Sets *FileSystemName* as the selected file system in cvadmin.
	-H *FSSHostName*	Connects to the StorNext FS on the *FSSHostName* machine.
	[-e command]	Runs cvadmin and exits.
	[-f *filename*]	Reads commands from the specified file.
	activate [*file_system_name*]	Activates a file system (*file_system_name*).
	debug [*value*]	Views or sets the StorNext FS's debugging flags.
	disable *groupname* [read | write]	Disables the stripe group (*groupname*) for either reads or writes.
	disks [refresh]	Displays StorNext FS disk volumes visible to this machine. If the refresh option is used, the volumes are re-scanned.
	down *groupname*	Disables access to the stripe group (*groupname*).
	enable *groupname* [read | write]	Enables the stripe group (*groupname*) for either reads or writes.
	fail [*file_system_name* | *index_number*]	Fails over the file system (*file_system_name*) or index number (*index_number*)

Command	Options	Description
	filelocks [yes | no]	Enables or disables cluster-wide file/record lock enforcement.
	[-h | -?]	Displays the command usage summary.
	multipath *groupname* [rotate | static | sticky]	Modifies the multi-path method for the specified stripe group.
	paths	Displays StorNext FS-labeled disks visible to the local system.
	quit	Disconnects cvadmin from the StorNext FS and exits.
	quotas [yes | no]	Enables or disables quota accounting and enforcement.
	quotas get [user | group] *name*	Displays current user or group quota parameters.
	quotas set [user | group] *name hardlim softlim timelim*	Sets current user or group quota parameters.
	quotacheck	Recalculates the amount of space consumed by all users and groups in the file system.
	repquota	Generates quota reports for all users and groups.
	select [*file_system_name*] | none	Selects the active file system (*file_system_name*).
	show [*groupname*] [long]	Displays all stripe groups or a specific stripe group.
	start *file_system_name* [on] [*hostname* | *IP address*]	Starts the StorNext FS manager for the specified file system (*file_system_name*).
	stat	Displays status of the file system.
	stop *file_system_name*	Stops the StorNext FS manager for the specified file system (*file_system_name*).
	up *groupname*	Enables the stripe group (*groupname*).
	who	Displays a list of mounted clients on the selected file system.

cvaffinity

Command	Options	Description
cvaffinity		Sets a session affinity type.
	[-k *key*]	Indicates where the file system should place the data file. If the *key* parameter is defined, then the data file is placed on stripe groups specified to support this parameter.
	filename	File or directory name.

cvcp

Command	Options	Description
cvcp		Provides a high speed, multi-threaded copy mechanism to copy directories and tar images to and from the StorNext FS.
	Source	Source file or directory.
	Destination	Destination file or directory.
	[-A]	Disables file pre-allocation.
	[-b *buffers*]	Sets the number of I/O buffers. Default value: Two times the number of copy threads started.
	[-k *buffer_size*]	Sets the I/O buffer size. Default value: 4MB
	[-l]	Copies the target of symbolic links rather than copying the link itself.
	[-n]	Prevents recursion through subdirectories.
	[-p *source_prefix*]	Only copies files that begin with the value of the *source_prefix* parameter.
	[-t *num_threads*]	Specifies the number of copy threads. Default value: 8

Command	Options	Description
	[-v]	Displays verbose output about the copied files.
	[-x]	Retains original permissions from the source file.
	[-y]	Retains ownership and group information (if set by the super user).
	[-z]	Retains original modification times.

cvfsck

Command	Options	Description
cvfsck		Checks and repairs a file system.
	[-d]	Enables internal debugguing.
	[-e]	Reports statistics on all file extents.
	[-f]	Reports fragmentation.
	[-g]	Prints the journal recovery log.
	[-j]	Executes journal recovery and exits.
	[-J]	Dumps the raw journal to stdout and exits.
	[-K]	Resets the journal and exits. WARNING: Resetting the journal may introduce meta-data inconsistency. Exercise extreme caution when using this option.
	[-l]	Writes information to syslog.
	[-n]	Does not update meta-data (read only).
	[-r]	Reports statistics on all files.
	[-v]	Displays verbose output.
	[-x]	Reports statistics for input to a spreadsheet.

Command	Options	Description
	FsName	Name of the file system to check.
	FsPath	An optional, alternate file system path (other than /usr/cvfs/data) to locate file systems.

cvfsid

Command	Options	Description
cvfsid		Displays the StorNext FS identifier for the executing system.

cvlabel

Command	Options	Description
cvlabel		LabelsStorNext FS disk devices.
	[-f]	Forces labeling, even if a label exists.
	-l	Lists available disk devices on the system.
	-c	Lists, on stdout, all located devices that are compatible with a /usr/cvfs/config/cvlabels file.
	[-v]	Displays verbose output about labeling.
	[-q tag q depth]	Used to set the Command Tag Queue Depth (tag q depth) on IRIX systems.
	[*label_file*]	File that contains *disk_name* and *device* entries for each disk label.
	-u *VolumeName*	Unlabels the specified volume (*VolumeName*).
	-D *VolumeName*	Dumps the label for the specified volume (*VolumeName*).

cvmkdir

Command	Options	Description
cvmkdir		Creates a StorNext FS directory with a stripe group affinity.
	-k *key*	Indicates where the file system should place the data file. If the *key* parameter is defined, then the data file is placed on stripe groups specified to support the *key* parameter.
	directory	Path where the directory is created.

cvmkfile

Command	Options	Description
cvmkfile		Creates a pre-allocated file on StorNext FS.
	[-k *key*]	Indicates where the file system should place the data file. If *key* is defined, then the data file is placed on stripe groups specified to support the *key* parameter.
	[-p]	Forces the allocation and subsequent expansions to fit as multiples of the *InodeExpandMin* parameter.
	[-s]	Forces the allocation to begin on a stripe-aligned block.
	[-w]	Sets the file size to the value of the *size* parameter.
	[-z]	Causes the file to physically zero out.
	size [k | m | g]	Specifies the file size in bytes. If appended with k, m or g, the value represents kilobytes, megabytes or gigabytes.
	filename	Name of the file to create.

cvmkfs

Command	Options	Description
cvmkfs		Reinitializes a StorNext FS.
	[-F]	Executes cvmkfs in non-interactive mode; the user does not receive confirmation prompts. WARNING: Running cvmkfs without prompts results in an irreversible reinitialization of StorNext FS. Use extreme caution when invoking this option.
	[-n #*k*, *m*, *g*]	Pre-allocates inodes on StorNext FS
	FsName	Name of the StorNext FS to reinitialize.

cvupdatefs

Command	Options	Description
cvupdatefs		Commits changes made to the StorNext FS configuration.
	[-F]	Forces updates.
	[-v]	Displays verbose output about the updated file system configuration.
	[*FsName*]	Name of the file system to update.
	[*FsPath*]	An optional, alternate file system path (other than /usr/cvfs/data) to locate file systems.

cvversions

Command	Options	Description
cvversions		Displays different versions (revision, build level and creation date) for the File System Manager and client sub-systems of the StorNext FS.

Windows GUI Commands (c:\cvfs\bin)*

Command	Description
cvntadmin.exe (StorNext FS Administrator GUI)	Starts and stops a StorNext FS. Views and modifies a file system and stripe group attributes. **Start > Programs > StorNext FS > File System Administrator**
cvcfgadmin.exe (StorNext FS Configuration Administrator)	Creates or modifies a StorNext FS configuration by changing the selected *file_system_name.cfg* file. This command is only available on the server where StorNext FS software is loaded. The command is not available on StorNext FS client machines. **Start > Programs > StorNext FS > Disk Device Labeler**
cvntlabel.exe (StorNext FS Disk Device Labeler)	Labels disk devices for use with a StorNext FS. **Start > Programs > StorNext FS > Disk Device Labeler**
cvntclnt.exe (StorNext FS Auto-Start Configuration)	Modifies the StorNext FS configuration files. **Start > Programs > StorNext FS > File System Control Parameters**
instsvc.exe (Start StorNext FS Services)	Starts up the background services needed by StorNext FS. Starts all file systems configured for auto-start. **Start > Programs > StorNext FS > Start File System Services**
rmsvc.exe (Stop StorNext FS Services)	Stops all StorNext FSs and shuts down background services needed by StorNext FS. **Start > Programs > StorNext FS > Stop File System Services**

*** Valid path if upgrading to StorNext FS 2.2 from a previous version. If installing StorNext FS 2.2 as an initial installation, the path is: c:\snfs\bin.**

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